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SECURITY INFORMATION

German Democratic Republic

REASONS FOR POOR FURNACE OPERATIONS AT THE CALBE PLANT

the reasons for the poor results with the low-shaft furnaces at the Metallurgical Combine West, Calbe/Saale.

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1. The main reasons for the poor results of furnace number I and of the failure of furnace number II have been ascertained. 50X1-HUM
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2. the output of furnace number I was useable for iron foundries, but not for steel mills. The fault lay in the ore used and in the lining of the furnaces. The ore used had an average Fe-content of 35 percent. Admixtures consisted of 0.3 - 0.4 percent of manganese, approximately 0.5 percent of phosphorus, and a varying sulphur content, while the Harzschke Plant in Unterwellenborn was able to get some output with this ore, the Calbe Plant had difficulties.
3. The furnace lining supplied from Stassfurt was not satisfactory.
4. The grate of furnace number II is made of V2A-steel of East German origin, which corresponds in quality approximately to the West German V2A-steel. (It is mentioned here that increasingly greater parts of the grate were being found in the molten product.)
5. The grate was removed from furnace number I when the decision was made to use metallurgical black coal coke in the smelting process.
6. The brown coal coke used in furnace number II is detrimental to its operation.
7. In building furnace number III, the negative experiences gained from furnaces number I and II were taken into account.
8. Furnace number III is to start operation before Easter. No grate will be built into this furnace.
9. Furnace number I will be shut down after furnace number III goes into operation and will be rebuilt according to experience to be gained from building furnace number III.
10. Since the Metallurgical Combine East in Queratenberg/Oder will soon put its two rebuilt furnaces into full operation, no black coal coke will be supplied to the Calbe plant, which would force furnace number I to discontinue operation anyway. 50X1-HUM

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